

Brief Report

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How to Deal With the Risk of Evacuation of Psychiatric Hospital in Nuclear Disaster: A Case Study

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Abstract

Objective: People with psychiatric disorders are one of the most vulnerable populations in disasters, and the 2011 Great East Japan Earthquake reported higher post-evacuation mortality rates among psychiatric inpatients. A psychiatric hospital evacuated after the nuclear accident was surveyed to gain valuable insights for future disaster preparedness.

Methods: The authors interviewed two Odaka Akasaka Hospital (a private psychiatric hospital) staff responsible for evacuation due to the nuclear accident.

Results: At the time of the earthquake, 104 patients had been admitted to the hospital. They were instructed to evacuate on the grounds that they existed within a 20 km radius of Fukushima Daiichi Nuclear Power Station. Although the evacuation process was extraordinarily demanding, the staff acted professionally, and no patient experienced a significant deterioration in health during the evacuation.

Conclusion: It was reasonable to follow the evacuation order because of the difficulty of obtaining accurate information about radiation exposure and staff availability in high-risk situations. The staff's knowledgeable and attentive care of the patients was one of the factors that enabled them to successfully carry out this severe evacuation. However, this may be related to the high mortality rate after the evacuation of patients who were separated from such caregivers.

Introduction

People with mental disorders are among the most vulnerable populations in disasters, along with the elderly and children,¹ and this population was also severely affected by the 2011 Great East Japan Earthquake and nuclear accident. Only a few case studies have focused on the evacuation of psychiatric inpatients during disasters.^{2,3} Detailed reports have been made on the evacuation of 2 hospitals, which were located within 5 km of the nuclear power plant, mainly describing the elderly.^{4,5}

Gotoh, *et al.*⁶ reported that the mortality rate of psychiatric inpatients who were evacuated at the Great East Japan Earthquake was higher than if they had continued to be hospitalized in the same hospital. The authors attributed this to several factors, including the high average age of the inpatients, the burden of evacuation itself, the separation from their home communities, and the vulnerability of people with mental disorders.⁶ Of these factors, the previous reports,^{4,5} confirm that the 'high average age' and 'burden of evacuation itself' contributed to the high mortality rate during and immediately after evacuation. However, this alone does not explain the persistence of high mortality ratios.

Based on the above, the authors had 2 research questions (RQs):

RQ1: What is the nature of mass evacuation of psychiatric patients in a complex disaster involving a nuclear power plant accident?

RQ2: What factors contribute to the long-term increase in mortality among psychiatric patients after evacuation?

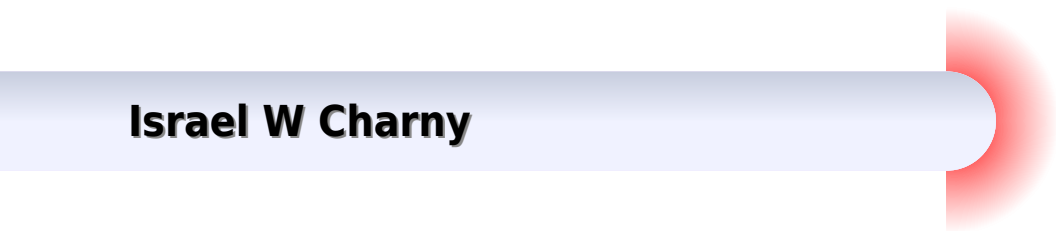
In this study, we investigated the evacuation of Odaka Akasaka Hospital, a private psychiatric hospital located approximately 18 km north-northwest of the Fukushima Daiichi Nuclear Power Station. A detailed study of this case will shed light on the measures needed to evacuate people with mental disorders.

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